

**Claims: What is claimed is:**

11(new). A complete EMI shield expansion housing apparatuses for add-on

5 expansion daughter board for computer system board comprising:

an on computer system board PCB shield zone, and

a metallic expansion housing cover, and

an add-on expansion daughter board,

whereby, after the said add-on expansion daughter board is mounted onto the

10 said on computer system board PCB shield zone, the said metallic

expansion housing cover is soldered onto the said on computer system

board PCB shield zone covering the said add-on expansion daughter

board.

12(new). The on computer system board PCB shield zone of claim 11 is a

15 copper clad ground plane PCB area fabricated on computer system board

PCB as part of the computer system board PCB with solderable

surrounding zone where the said metallic expansion housing cover of

claim 11 can be soldered on to.

13(new). The on computer system board PCB shield zone of claim 11

20 installed with at least one connector for installing of said add-on expansion

daughter board of claim 11.

14(new). The said connector/s of claim 13 is soldered on computer system

board inside of the said the on computer system board PCB shield zone of

claim 11.

25 15(new). The said connector/s of claim 13 is providing mechanical support

for attaching the said add-on expansion daughter board of claim 11 onto

the computer system board with necessary help of other mounting means.

16(new). The said add-on expansion daughter card of claim 11 has connector

means for attaching to the corresponding said connector/s of claim 13.

30 17(new). The said add-on expansion daughter card of claim 11 is attached to

the computer system board via the corresponding said connector of claim

13 within the on computer system board PCB shield zone of claim 11.

18(new). The metallic expansion housing cover of claim 11 is a metallic cover box with an open base that can be soldered onto the corresponding solderable surrounding zone of claim 12.

20(new). metallic expansion housing cover of claim 11 soldered onto said on  
5 PCB shield zone of claim 11 form a complete metallic shield apparatus for the add-on expansion daughter card and other electronics inside the apparatus.

21(new). A complete EMI shield and heat conduction expansion housing apparatus  
10 for add-on expansion daughter board for computer system board comprising:

a said complete EMI shield expansion housing apparatuses of claim 11  
a plurality of heat conduction means

22(new). The said heat conduction means of claim 21 are attached between  
the add-on expansion daughter board of claim 11 and the metallic  
15 expansion housing cover of claim 11.

23(new). The said apparatus of claim 21 utilizing the said metallic expansion housing cover of claim 11 as heat sink for the heat that generated inside the apparatus of claim 11 and conducted to it by the heat conduction means of claim 21.

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24(new). A computer system board with a plurality of complete EMI shield expansion housing apparatuses for add-on expansion daughter boards comprising:

a plurality of said complete EMI shield expansion housing apparatuses of  
25 claim 11 and/or said complete EMI shield with heat conduction expansion housing apparatuses of claim 18

25(new). The said shied expansion housing apparatuses for add-on expansion board claim 28 are mechanically isolated from each other with certain spacing in order to apply soldering during the assembly.

30 26(new). A stackable computer system board with a plurality of complete EMI shield expansion housing apparatuses for add-on expansion daughter board comprising: